

## **REMARKS**

Claims 1-4 and 6-31 are pending in the present application. Applicant has amended claims 1-4, 9, 10, 16-18 and 22-24 and cancelled claims 7, 14, 15, 21, 27 and 31 herein. Applicant respectfully requests reconsideration of the claims based on the following remarks.

Support for the claim amendments is found in the specification, figures and claims. Accordingly applicant submits that no new matter has been introduced by the claim amendments.

Claims 1-4 and 6-31 were objected to because of informalities. Applicant has amended claims 1-4, and 9, 10, 16-18 and 22-24 to correct the informalities. Further, applicant has cancelled claims 5, 7, 14, 15, 21, 27 and 31 herein.

Claims 1, 3, 9, 12, 15, 16, 19, 22, 23 and 27 were rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 3, 9, 12, 16, 17, 25, 27 and 35 of U.S. Patent No. 7,343,196. Applicant has filed a terminal disclaimer herewith that obviates the foregoing rejection.

Claims 9, 10, 11 and 15-18 were rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 2, 9 and 10 of U.S. Patent No. 7,346,381. Applicant has filed a terminal disclaimer herewith that obviates the foregoing rejection.

Claims 1, 3, 4, 6, 8, 22-28 and 31 were rejected under 35 U.S.C. §103(a) as being unpatentable over Chen et al. (Pub. No. 2004/0210125) in view of Coste-Maniere et al. (Pub. No. 2003/0109780).

Independent claim 1, as amended, recites in part:

"identifying one or more anatomical landmarks on said 3D model and inserting corresponding translucent geometric markers thereat, utilizing user input at an operator console...

measuring sizes of lesions and a number of the lesions in the coronary arteries utilizing said 3D model."

Chen et al. is directed to a video-based surgical targeting system. Coste-Maniere et al. is directed to an apparatus of surgical planning. Chen et al. and Coste-Maniere et al., however, do not provide any teaching of: "identifying one or more anatomical landmarks on said 3D model and inserting corresponding translucent geometric markers thereat, utilizing user input at an operator console", as recited in claim 1 as amended.

Further, Chen et al. and Coste-Maniere et al. do not provide any teaching of: "measuring sizes of lesions and a number of the lesions in the coronary arteries utilizing said 3D model", as recited in claim 1 as amended.

Accordingly, because the combination of Chen et al. and Coste-Maniere et al. do not teach each and every limitation of claim 1 as amended, and claims 3, 4, 6, 8 and 28 which depend from claim 1, applicant submits that claims 1, 3, 4, 6, 8 and 28 are allowable over these references.

Independent claim 22, as amended, recites in part: "the image generation subsystem further measuring sizes of lesions and a number of the lesions in the coronary arteries utilizing said 3D model."

Chen et al. and Coste-Maniere et al., however, do not provide any teaching of: "the image generation subsystem further measuring sizes of lesions and a number of the lesions in the coronary arteries utilizing said 3D model", as recited in claim 22 as amended.

Accordingly, because the combination of Chen et al. and Coste-Maniere et al. do not teach each and every limitation of claim 22 as amended, and claims 23-26 which depend from claim 22, applicant submits that claims 22-26 are allowable over these references.

Claim 2 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Chen et al. in view of Coste-Maniere et al. as applied to claims 1 above, and further in view of Keston et al. (U.S. Patent No. 6,493,575).

Claim 2 depends from claim 1 as amended, and therefore incorporates by reference all of the limitations of claim 1. As discussed above, Chen et al. and Coste-Maniere et al. do not provide any teaching of: "identifying one or more anatomical landmarks on said 3D model and inserting corresponding translucent geometric markers thereat, utilizing user input at an operator console", as recited in claim 1 as amended. Further, Chen et al. and Coste-Maniere et al. do not provide any teaching of: "measuring sizes of lesions and a number of the lesions in the coronary arteries utilizing said 3D model", as recited in claim 1 as amended. Further, Keston et al. does not provide any teaching of the foregoing limitations of claim 1.

Accordingly, because the combination of Chen et al., Coste-Maniere et al., and Keston et al. does not teach each and every limitation of claim 1 as amended, and claim 2 which depends from claim 1, applicant submits that claim 2 is allowable over these references.

Claim 7 was rejected under 35 USC § 103(a) as being unpatentable over Chen et al. in view of Coste-Maniere et al. as applied to claim 1 above, and further in view of Veseley et al. (U.S. Patent No. 6,246,898). Claim 7 has been cancelled herein.

Claims 9-13, 15-20, 29-30 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chen et al. in view of Coste-Maniere et al. and Krishnan et al. (Pub. No. 2005/0059876).

Independent claim 9, as amended, recites in part:

"identifying one or more anatomical landmarks on said 3D model and inserting corresponding translucent geometric markers thereat, utilizing user input at an operator console..

measuring sizes of lesions and a number of lesions in the coronary arteries utilizing said 3D model."

After carefully Chen et al., Coste-Maniere et al. and Krishnan et al., applicant submits that these references do not provide any teaching of: "identifying one or more anatomical landmarks on said 3D model and inserting corresponding translucent geometric markers thereat, utilizing user input at an operator console", as recited in claim 9 as amended.

Further, Chen et al., Coste-Maniere et al. and Krishnan et al. do not provide any teaching of: "measuring sizes of lesions and a number of lesions in the coronary arteries utilizing said 3D model", as recited in claim 9 as amended.

Accordingly, because the combination of Chen et al., Coste-Maniere et al., and Krishnan et al. does not teach each and every limitation of claim 9 as amended, and claims 10-13 and 29 which depend from claim 9, applicant submits that claims 9-13 and 29 are allowable over these references.

Independent claim 16, as amended, recites in part:

"identifying one or more anatomical landmarks on said 3D model and inserting corresponding translucent geometric markers thereat, utilizing user input at an operator console...

measuring sizes of lesions and a number of the lesions in the coronary arteries utilizing said 3D model."

After carefully reviewing Chen et al., Coste-Maniere et al. and Krishnan et al., applicant submits that these references do not provide any teaching of: "identifying one or more anatomical landmarks on said 3D model and inserting corresponding translucent geometric markers thereat, utilizing user input at an operator console", as recited in claim 16 as amended.

Further, Chen et al., Coste-Maniere et al. and Krishnan et al. do not provide any teaching of: "measuring sizes of lesions and a number of lesions in the coronary arteries utilizing said 3D model", as recited in claim 16 as amended.

Accordingly, because the combination of Chen et al., Coste-Maniere et al., and Krishnan et al. does not teach each and every limitation of claim 16 as amended, and claims 17-20 and 30 which depend from claim 16, applicant submits that claims 16-20 and 30 are allowable over these references.

Claims 14 and 21 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chen et al. in view of Coste-Maniere et al. and Krishnan et al. as applied to claims 9 and 20 above, and further in view of Veseley et al. (U.S. Patent No. 6,246,898). Claims 14 and 21 have been cancelled herein.

In view of the remarks discussed above, it is respectfully submitted that the present application is in condition for allowance. Such action is most earnestly solicited. If for any reason the Examiner feels that consultation with applicant's attorney would be helpful in the advancement of prosecution, the Examiner is invited to call the telephone number below for an interview.

If there are any charges due with respect to this Response or otherwise, please charge them to Deposit Account No. 06-1130, maintained by the applicant's attorney.

Respectfully submitted,

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